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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/560,207

12/09/2005

Ralf Wiedemann

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EXAMINER

YOO, REGINA M

ART UNIT

PAPER NUMBER

1797

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/560,207	<b>Applicant(s)</b> WIEDEMANN ET AL.	
	<b>Examiner</b> REGINA YOO	<b>Art Unit</b> 1797	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 28 April 2010.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-4 and 6-22 is/are pending in the application.
- 4a) Of the above claim(s) 6, 11, 13-15, 17-19, 21 and 22 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7-10, 12, 16 and 20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)         | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Response to Amendment***

The amendment filed on 4/28/10 has been received and claims 1-4 and 6-22 are pending.

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/28/2010 has been entered.

### ***Election/Restrictions***

2. Claims 6, 11, 13-15, 17-19 and 21-22 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to nonelected groups and species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 10/30/2007.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. Claims 1-4, 7-10, 12, 16 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reeves (6372126) or Jordan (4338191) in view of Buchan (4192763) or Hung (5753602).

As to Claim 1, Reeves ('126) discloses an automatic detergent dispensing device (10) comprising a detergent bar (14) comprising a detergent composition, a detergent additive, or a detergent composition which includes a detergent additive (see Col. 3 line 61 and Col. 4 lines 7-8), said detergent bar (14) disposed within a channel (20), wherein the detergent bar (14) completely fills at least a portion of the channel across the entire bore of the channel (20) (see for example Figures 6 and 9), the channel (20) having an open end (the top end of channel 20) and an inlet aperture (36) which is in communication with said open end (see Figures 1-6, specifically Figure 2).

Jordan ('191) also discloses an automatic detergent dispensing device (see entire document, particularly Figures 1-32) comprising a detergent bar comprising a detergent composition, a detergent additive, or a detergent composition which includes a detergent additive (see Col. 3 lines 48-63), said detergent bar disposed within a channel (26), wherein the detergent bar completely fills at least a portion of the channel across the entire bore of the channel (26), the channel having an open end (top end of 26; see Figures 1-2 and 19, and Col. 5 lines 3-5 – which indicates that a cap 54 is optional) and an inlet aperture (28) which is in communication with said open end (top end of 26).

In the event that Jordan ('191) does not disclose to sufficient extent that the detergent bar completely fills at least a portion of the channel across the entire bore of the channel 26, it was well known in the art at the time of invention to provide a detergent bar within a channel of an automatic detergent dispensing device and it would have been obvious to one of ordinary skill in this art at the time of invention to provide a detergent bar of such a size as to completely fill the channel bore.

Neither Reeves ('126) nor Jordan ('191) discloses that the detergent bar comprises a surfactant.

It was well known in the art at the time of invention to include a surfactant in chlorine tablets. Buchan ('763) exemplifies a chlorine tablet comprised of a chlorine source such as calcium hypochlorite and chloride of lime and a surfactant (i.e. zinc stearate) in order to produce tablet form of chlorine for disinfecting and sanitizing (see entire document, particularly Abstract, Col. 1 line 5-12 and 63-68 and Col. 9 lines 1-54).

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Hung ('602) also exemplifies a chlorine tablet comprised of a source of chlorine (see entire document, particularly Col. 3 line 63 to Col. 4 line 12) and a surfactant (see Col. 4 lines 13-38) in order to produce a tablet with controlled rates of dissolution for long term efficacy that also allows reduced compression energy expenditures during tableting so as to reduce the wear and tear on tableting machines (see Abstract and Col. 3 lines 11-61).

It would have been obvious to one of ordinary skill in this art at the time of invention to provide a surfactant in a detergent bar such as chlorine tablets of Reeves and Jordan as a known formulation for chlorine tablets in order to produce a suitably compressed tablet for disinfecting and sanitizing as exemplified by Buchan or Hung

As to Claim 2-4, Reeves ('126) discloses that the channel (20) is a cylindrical tube (see Figures 1-10), wherein the channel (20) has a uniform bore, along its length or at least along the portion filled by the detergent bar (14) (see Figures 1-10).

Jordan ('191) also discloses that the channel has a uniform bore of cylindrical tube configuration (see Col. 3 lines 48-49), along its length or at least along the portion filled by the detergent bar (see Figures 2, 9, 11 and 19).

As to Claims 7-9, Reeves ('126) discloses that the channel (20) has a plurality of open ends (at the top end of 20 and at the bottom end of 20 via 34, 38, 183 or 214) each of which being in communication with an inlet aperture (36) (see Figures 2-3 and 7).

Jordan ('191) also discloses that the channel (26) has a plurality of open ends (apertures on end plate 30) each of which being in communication with an inlet aperture (28 and the openings provided on 30) and is deemed to be an open end in addition to the top open end of channel/tube 26 (see Figure 3 and Col. 4 lines 3-7).

As to Claims 10 and 12, Reeves ('126) discloses that the channel (20) has a plurality of secondary apertures (34, 38, 183) (see Figures 2-3).

Jordan ('191) also discloses the channel has a plurality of secondary apertures (see Figure 3 – openings on plate 30).

As to Claim 16, while neither Jordan ('191) nor Reeves ('126) appears to specifically disclose that the secondary aperture possesses a diameter of less than 5mm, it would have been obvious and well within the purview of one of ordinary skill in this art at the time of invention to modify the diameter of secondary aperture (on the plate 30 for Jordan or for the aperture 183 of Reeves) to less than 5mm in order to ensure adequate water flow into the channel but at the same time to retain the detergent bar efficiently. Only the expected results would be attained (see MPEP §2144.04 section IV (A)).

As to Claim 20, while Jordan ('191) appears to teach that the container 12 is made out of a water insoluble material which is a moldable plastic material such as high density polyethylene (see Col. 3 lines 30-31), neither Jordan ('191) nor Reeves ('126)

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does not appear to specifically teach that the channel is made out of the same material as well.

It was well known in the art at the time of invention to produce plastic detergent dispensing devices/channels from same or similar materials and thus, it would have been obvious to one of ordinary skill in this art at the time of invention to utilize the same material to manufacture the channel that is placed within the container 12 in the device of Jordan in order to function properly (e.g. not to become damaged by the detergent ingredients). Moreover, it would have been obvious and well within the purview of one of ordinary skill in this art at the time of invention to provide a water-resistant or water insoluble material for the channel in the device of Reeves so that the device is able to function as intended without being affected by its surrounding (i.e. water). Only the expected results would be attained.

Thus, Claims 1-4, 4-10, 12, 16 and 20 would have been obvious within the meaning of 35 U.S.C. 103(a) over the combined teachings of Reeves ('126) or Jordan ('191) and Buchan ('763) or Hung ('602).

### ***Response to Arguments***

6. Applicant's arguments with respect to claims 1-4, 7-10, 12, 16 and 20 have been considered but are moot in view of the new ground(s) of rejection.



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7. Applicant's arguments filed 4/28/2010 have been fully considered but they are not persuasive.

Specifically, Applicant argues at the top of p. 6 of Remarks that "[c]hlorine or chlorine tablets, as taught in Reeves, are oxidizing agents used for bleaching and disinfecting...[and] they are decidedly not surfactants because they do not lower the surface tension of water". However, Examiner would point out that the new references cited above show that chlorine tablets do include a surfactant.

In addition, Applicant argues at the bottom on p. 6 of Remarks that "a person of ordinary skill in the art would not be motivated to add a surfactant because both [Reeves and Jordan] references are directed to apparatuses used to disinfect and treat water, not to use the water for cleansing purposes". However, Examiner would indicate that a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

### ***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following references relate either to the field of the invention or subject matter of the invention, but are not relied upon in the rejection of record: 5472712 and 20020187907.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to REGINA YOO whose telephone number is (571)272-6690. The examiner can normally be reached on Monday-Friday, 10:00 am - 7:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elizabeth L McKane/  
Primary Examiner, Art Unit 1797

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